

Abstract:

A heat pump having an indoor coil that operates as a condenser when the system is in a heating mode and an outdoor coil that operates as an evaporator when the system is in the heating mode. A variable speed indoor fan is used to move supply air over the indoor coil and a temperature sensor is arranged to provide ambient outdoor temperature data to a programmable computer. The computer contains a schedule for continuously adjusting the speed of the indoor fan in response to changes in the ambient temperature so as to maintain the temperature of the supply air at a constant level. In doing so, the compressor discharge pressure is also maintained within allowable limits and is held substantially constant.